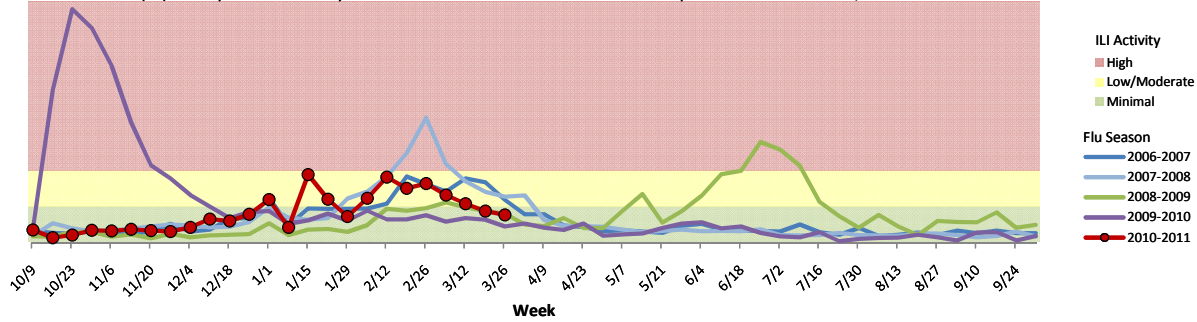


### Influenza-like Illness Activity

#### Weekly Influenza-like Illness Activity

Influenza-like illness (ILI) activity as measured by the number of standard deviations from the epidemic threshold- Utah, 2010-2011



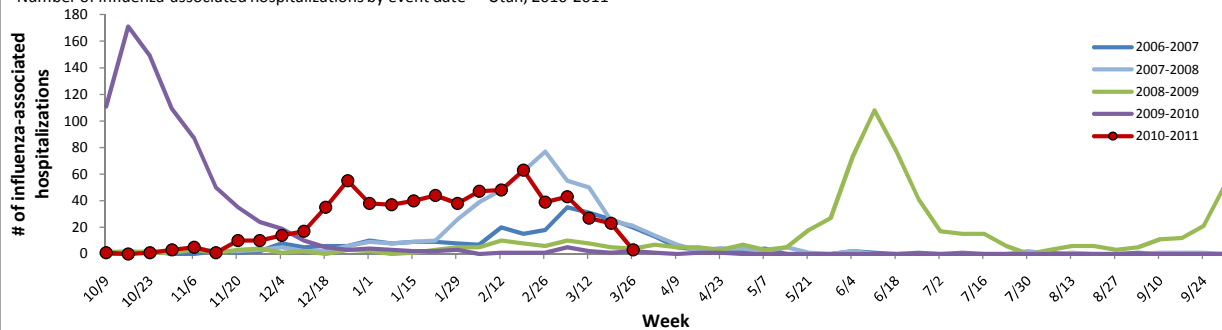
#### Influenza-like Illness (ILI) Activity Levels by Health District - Utah

Health District	ILI Activity
Bear River	Low/Moderate
Central	No Data
Davis	Minimal
Salt Lake	Minimal
Southwest	Minimal
Summit	Minimal
Tooele	Minimal
TriCounty	No Data
Utah	Minimal
Wasatch	No Data
Weber-Morgan	Minimal
State	Minimal

### Severity Measures

#### Influenza-associated Hospitalizations

Number of influenza-associated hospitalizations by event date\* - Utah, 2010-2011



\*Event date is calculated based on a hierarchy of dates: 1. onset date 2. specimen collection date 3. date reported to public health.

#### Summary Data for Influenza-associated Hospitalizations, 2010-2011 Season to Date

Variable		Number of cases	% of IAH cases	% in Utah pop	p value*
Sex	Male	329	51.2%	50.3%	0.6325
	Female	313	48.8%	49.7%	0.6325
	Unknown	0	0.0%	NA	--
Race	White, Not Hispanic	497	77.4%	82.0%	0.0023
	Hispanic	99	15.4%	11.6%	0.0024
	Native Hawaiian/Pacific Islander	18	2.8%	0.7%	<0.0001
	Black/African American	20	3.1%	0.9%	<0.0001
	American Indian	4	0.6%	1.1%	0.2227
	Asian	4	0.6%	1.9%	0.0198
	Unknown	0	0.0%	NA	--

\*If a p value is  $\leq 0.05$ , there is a significant difference between the percentage seen in IAH and the general Utah population.

**Severity Measures, cont.**

**Cases of Influenza-associated Hospitalizations by Age Group, Utah, 2010-2011**

Age Group	Total Cases Season to Date	Percent of Cases	Cases/ 100,000 Population	New Cases in Past Week
0-4 years	168	26.2%	62.1	1
5-24 years	99	15.4%	10.5	0
25-49 years	122	19.0%	12.3	2
50-64 years	85	13.2%	21.2	0
65+ years	168	26.2%	68.0	0
Total	642	100%	22.5	3

**Influenza-associated Hospitalizations by Health District, 2010-2011 Season to Date**

Health District	Total Hospitalizations
Bear River	24
Central	21
Davis	49
Salt Lake	339
Southeastern	3
Southwest	33
Summit	8
Tooele	3
TriCounty	7
Utah	71
Wasatch	1
Weber-Morgan	83

**Summary Data for Influenza-associated Hospitalizations, 2010-2011 Season to Date**

Variable	Yes		No		Unknown	
	Number of Cases	% of cases	Number of Cases	% of cases	Number of Cases	% of cases
ICU	88	13.7%	437	68.1%	117	18.2%
Ventilator	38	5.9%	482	75.1%	122	19.0%
Died	22	3.4%	509	79.3%	111	17.3%
Neurological Symptoms	71	11.1%	431	67.1%	140	21.8%
Healthcare Worker	8	1.2%	436	67.9%	198	30.8%
Pregnant	22	3.4%	575	89.6%	45	7.0%
Heart Disorder	105	16.4%	398	62.0%	139	21.7%
Blood Disorder	14	2.2%	489	76.2%	139	21.7%
Kidney Disorder	46	7.2%	458	71.3%	138	21.5%
Metabolic Disorder	84	13.1%	415	64.6%	143	22.3%
Chronic Respiratory Disorder	156	24.3%	351	54.7%	135	21.0%
Immunosuppressed	63	9.8%	439	68.4%	140	21.8%
Neurological Disorder	71	11.1%	431	67.1%	140	21.8%
Seizure Disorder	29	4.5%	472	73.5%	141	22.0%
Bacterial Co-infection	12	1.9%	490	76.3%	140	21.8%
Obese**	94	24.9%	159	42.1%	125	33.1%
Morbidly Obese**	27	7.1%	226	59.8%	125	33.1%
Risk Factor***	591	92.1%	51	7.9%	0	0.0%
Vaccinated	152	23.7%	266	41.4%	224	34.9%

\*\*Obesity and morbid obesity is not considered for individuals under 18 years or pregnant women. Thus total counts will not equal the total number of influenza-associated hospitalizations

\*\*\*Risk factors for influenza include: persons < 5 years, persons ≥ 65 years, pregnant women, and persons with a chronic medical condition.

**Case Counts of Influenza-associated Hospitalizations, Utah, 2010-2011**

Case Status	Current Week	Current Week % of Cases	Season Total	Season % of Cases
Confirmed*	3	100.0%	587	91.4%
Probable**	0	0.0%	55	8.6%
Total	3	100.0%	642	100.0%

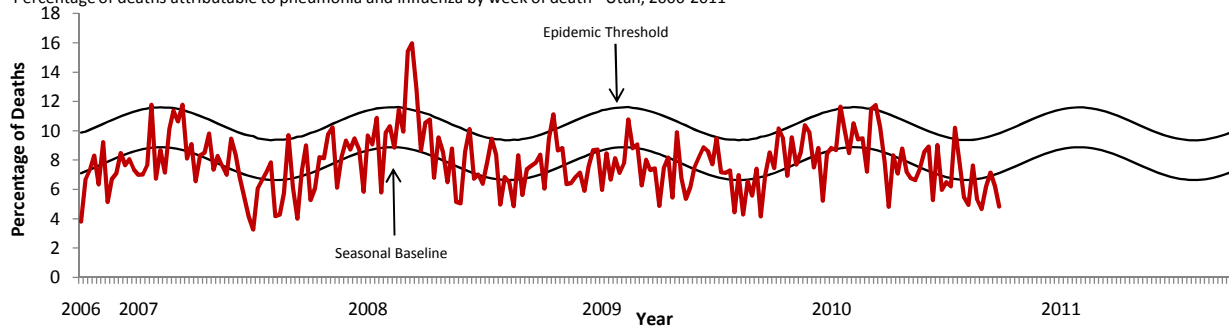
\*Confirmed= hospitalized with serology, DFA, PCR, or culture positive influenza test

\*\*Probable= hospitalized with a positive rapid test

### Pneumonia and Influenza Deaths

#### Pneumonia and Influenza Deaths

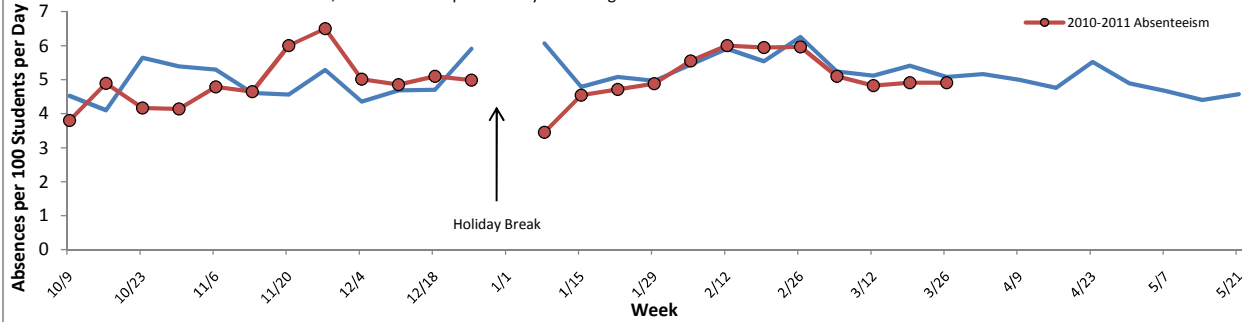
Percentage of deaths attributable to pneumonia and influenza by week of death - Utah, 2006-2011



### School Absenteeism

#### Student Absenteeism by Week

Rates for absences due to all causes - Utah, 2010-2011 and previous 3 year average



#### Weekly Student Absenteeism - Utah, 2010-2011

Health District	All absences per 100 students/day
Bear River	3.3
Central	2.3
Davis	3.9
Salt Lake	4.5
Southeast	5.9
Southwest	--
Summit	--
Tooele	6.6
TriCounty	3.2
Utah	4.8
Wasatch	5.8
Weber-Morgan	6.3
State	4.7

### Virologic Data

#### Unified State Laboratory: Public Health Virologic Data

	Season to-date		Current MMWR week	
	Number	Percent	Number	Percent
Specimens tested	1,907	--	50	--
Positive specimens	1223	64.1%	24	48.0%
Positive Specimens by Type/Subtype				
Influenza A	1055	86.3%	18	75.0%
A (2009 H1N1)	256	24.3%	9	50.0%
A (H1)	0	0.0%	0	0.0%
A (H3)	792	75.1%	9	50.0%
A (subtyping not performed)	0	0.0%	0	0.0%
A (unable to subtype)	1	0.1%	0	0.0%
Influenza B	175	14.3%	6	25.0%

#### Influenza Positive Tests

Influenza positive specimens tested by Unified State Laboratory: Public Health (USLPH) - Utah, 2010-2011

